

# Rafael Navrátil

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

511  
citations

686830

13  
h-index

752256

20  
g-index

23  
all docs

23  
docs citations

23  
times ranked

754  
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>N</i> -Ammonium Ylide Mediators for Electrochemical C-H Oxidation. <i>Journal of the American Chemical Society</i> , 2021, 143, 7859-7867.	6.6	62
2	M=O Bonding Beyond the Oxo Wall: Spectroscopy and Reactivity of Cobalt(III)=O <sub>xyl</sub> and Cobalt(III)=O <sub>oxo</sub> Complexes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9619-9624.	7.2	56
3	Magnetic Circular Dichroism Evidence for an Unusual Electronic Structure of a Tetracarbene=Oxoiron(IV) Complex. <i>Journal of the American Chemical Society</i> , 2016, 138, 14312-14325.	6.6	52
4	Characterized cis-FeV(O)(OH) intermediate mimics enzymatic oxidations in the gas phase. <i>Nature Communications</i> , 2019, 10, 901.	5.8	48
5	Trapping Iron(III)=O Species at the Boundary of the "Oxo Wall": Insights into the Nature of the Fe(III)=O Bond. <i>Journal of the American Chemical Society</i> , 2018, 140, 14391-14400.	6.6	47
6	Chasing the Evasive Fe=O Stretch and the Spin State of the Iron(IV)=O Complexes by Photodissociation Spectroscopy. <i>Journal of the American Chemical Society</i> , 2017, 139, 2757-2765.	6.6	45
7	Experimentally Calibrated Analysis of the Electronic Structure of CuO <sup>+</sup> : Implications for Reactivity. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 17053-17057.	7.2	32
8	Infrared and Visible Photodissociation Spectra of Rhodamine Ions at 3 K in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2015, 119, 12648-12655.	1.1	24
9	Reactive cyclic intermediates in the ProTide prodrugs activation: trapping the elusive pentavalent phosphorane. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 315-320.	1.5	21
10	Detection of Indistinct Fe=N Stretching Bands in Iron(V) Nitrides by Photodissociation Spectroscopy. <i>Chemistry - A European Journal</i> , 2018, 24, 5078-5081.	1.7	18
11	Collisions of FeO <sup>+</sup> with H <sub>2</sub> and He in a Cryogenic Ion Trap. <i>ChemPhysChem</i> , 2016, 17, 3723-3739.	1.0	17
12	Spin-State-Controlled Photodissociation of Iron(III) Azide to an Iron(V) Nitride Complex. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14057-14060.	7.2	17
13	Visible photodissociation spectra of gaseous rhodamine ions: Effects of temperature and tagging. <i>Journal of Molecular Spectroscopy</i> , 2017, 332, 52-58.	0.4	17
14	M=O Bonding Beyond the Oxo Wall: Spectroscopy and Reactivity of Cobalt(III)=O <sub>xyl</sub> and Cobalt(III)=O <sub>oxo</sub> Complexes. <i>Angewandte Chemie</i> , 2019, 131, 9721-9726.	1.6	13
15	Radical and Nitrenoid Reactivity of 3-Halo-3-phenyldiazirines. <i>Organic Letters</i> , 2016, 18, 3734-3737.	2.4	8
16	Experimentally Calibrated Analysis of the Electronic Structure of CuO <sup>+</sup> : Implications for Reactivity. <i>Angewandte Chemie</i> , 2018, 130, 17299-17303.	1.6	8
17	Evidence for the Cyclic CN <sub>2</sub> Carbene in Solution. <i>Organic Letters</i> , 2014, 16, 852-855.	2.4	7
18	Spin-State-Controlled Photodissociation of Iron(III) Azide to an Iron(V) Nitride Complex. <i>Angewandte Chemie</i> , 2017, 129, 14245-14248.	1.6	7

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19	Transforming hemithioindigo from a two-way to a one-way molecular photoswitch by isolation in the gas phase. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 6868-6876.	1.3	7
20	Photochemistry of a 9- <i>π</i> -Dithianyl- <i>π</i> -Pyronin Derivative: A Cornucopia of Reaction Intermediates Lead to Common Photoproducts. <i>ChemPlusChem</i> , 2020, 85, 2230-2242.	1.3	5
21	Rücktitelbild: Experimentally Calibrated Analysis of the Electronic Structure of CuO <sup>+</sup> : Implications for Reactivity ( <i>Angew. Chem.</i> 52/2018). <i>Angewandte Chemie</i> , 2018, 130, 17514-17514.	1.6	0